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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/294,341 04/20/99 HIROKI

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WM01/0605

EXAMINER

ZAMANI, A

ART UNIT

PAPER NUMBER

2674

DATE MAILED:

06/05/01

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

SA

Office Action Summary

Application No.
09/294,341

Applicant
Hiroaki Masaaki

Examiner
Ali Zamani

Art Unit
2674



- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on Mar 22, 2001

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1 and 3-38 is/are pending in the application.

4a) Of the above, claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 1, 3, 7-9, 13-16, 20-22, 26-28, 32-34, and 38 is/are rejected.

7) ☒ Claim(s) 4-6, 10-12, 17-19, 23-25, 29-31, and 35-37 is/are objected to.

8) ☐ Claims _____ are subject to restriction and/or election requirements.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.

12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

a) ☐ All b) ☐ Some* c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

15) ☐ Notice of References Cited (PTO-892)

18) ☐ Interview Summary (PTO-413) Paper No(s). _____

16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

19) ☐ Notice of Informal Patent Application (PTO-152)

17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____

20) ☐ Other: _____

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DETAILED ACTION

Claim Objections

1. Claim 34 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

3. Claims 1, 3, 7-9, 13-16, 20-22, 26-28, 32-34 and 38 are rejected under 35 U.S.C. 102(e) as being anticipated by Aoki (US Pat. No. 6,011,533).

In regard to claims 1, 3, 7-9, 13-16, 20-22, 26-28, 32-34 and 38, Aoki discloses an image display device comprising: a liquid crystal panel (100) having a switching element for every pixel electrode (114), a scanning line driving circuit (102) for driving scanning lines of liquid crystal

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panel (100), a signal line driving circuit (104) for driving signal lines of liquid crystal panel (100), a control circuit (20) for controlling driving liquid crystal panel (100), a video signal processing circuit (col. 1, lines 17-29), a producing circuit (32) for producing a phase difference in a second signal with respect to a phase of a first signal which is inputted to signal line driving circuit (104) or to scanning line driving circuit (102). Aoki teaches that the phase-expanded signals that have been converted to a time length of data that is longer than the first sampling period, and outputs in parallel with different head positions of the pixel data in the phase-expanded signals on the basis of a reference clock signal and during this time, the sampling signal generation (106) may supply the sampling signals to the plurality of sampling with different head positions of the second sampling periods in the sampling signals. This insures that the pixels connected to each of the scan signal lines can be driven by a point-at-a time scanning. Aoki also teaches that the sampling signal generation (106) may comprise a shift register which outputs a signal later than a preceding signal by one cycle of a reference clock signal the $(3m-2)$ th output of the shift register within one horizontal scanning period of time can be input to the plurality of sampling, and the second sampling period of the sampling means can be N times one cycle of the reference clock signal (Fig. 16, col. 4, lines 14-42). Aoki teaches that wherein said image display device is a projection type display (Fig. 28) including a projection light emitted from a lamp unit (1102) that is a light source and a transmission type of liquid crystal panel (col. 20, lines 7-43) which all function as claimed.

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4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sakaedani et al. and Nakamura et al. are made of record to show various types of LCD and the method of driving.

Allowable Subject Matter

5. Claims 4-6, 10-12, 17-19, 23-25, 29-31 and 35-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Amendment

Applicant's arguments filed on 03-22-01 with respect to claims 1-7 have been fully considered but they are not persuasive.

Response to Arguments

a). On page 2, Applicant argue that Aoki fails to expressly teach or implicitly suggest a signal line driving circuit for driving signal lines of the liquid crystal panel. However, examiner disagrees because Aoki explicitly teach a signal line driving circuit for driving signal lines of the liquid crystal panel (see col. 8, lines 58-69).

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b). On page 3, Applicant argue that Aoki does not disclose a circuit (32) for producing a phase difference in a first signal and a second signal, there is no such disclosure of a circuit for producing a phase difference in a second signal with respect to a phase of a first signal which is input to the signal line driving circuit to the scanning line driving circuit. However, examiner disagrees because Fig. 12, shows a first signal CLK1 which is input to the signal line drive circuit (104) and second signal CLK2 which is also is input to the signal line drive circuit (104) and also Fig. 13, shows phase relationship between the first and second signal, which have phase difference see also Fig. 7A shows phase difference (Fig. 7B, reversed phase relations).

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Zamani whose telephone number is (703) 308-6414. The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe, can be reached on (703) 305-4709. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-9051.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Ali Zamani

June 01, 2001



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600